



# ELK

*Simply. Sophisticated. Control.*



## Product Catalog

Premium Security and Automation Products





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### **Our Mission**

To provide cost-effective and innovative security and automation solutions to the professional trade with unsurpassed product quality and technical support.

### **What We Do**

With one of the best warranties in the industry, Elk is known as a premium alarm and automation manufacturer with a complete product line including controls, speakers, sirens, power supplies, timers, relays, PLCs, recordable voice units and a great battery tester. We challenge our customers to come up with a problem that can't be solved by one of our products.

We call our M1 controls a "Cross Platform Control®" because they provide more than security, more than automation. They actually allow you to interface with more than 35 manufacturer's products for total control of home or business. Users can have a system as individual as their needs. Our common sense approach provides economical solutions for energy & task management, entertainment, security, video surveillance, lighting, and remote control from one central brain – M1. The ability to coordinate all the equipment under one authority simplifies the usage and strengthens the reliability of the entire system. Utilizing the energy management features of M1 can provide a pay back of the system and the customer's security monitoring as well.

Our M1 Gold version has a soothing voice for system alerts onsite and over the phone, a menu for telephone remote control, and system guidance. M1EZ8, while without voice capability, is a lower cost version of the M1Gold with the same powerful Whenever/And/Then rules programming engine, expandability, 32-bit processor with flash memory and 2400 baud 2-way modem. Both versions allow you to stay in touch and in control over the internet or intranet. M1's English Text Programming completely eliminates the learning curve for installers, too.

**Increase your market potential, stand out from the competition, and provide safety, savings, and convenience to your customers.**

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# ***Simplify life with an affordable, personalized system***



## **Security & Safety**

M1 Control Systems provide comprehensive, sophisticated security solutions to keep what matters most safe & secure.

- Provides detection and reporting for:

- Intrusion
- Fire & Carbon Monoxide
- Medical Emergencies
- Water Leaks
- Hi/Low Temperatures
- and more...

- Enhance security with video surveillance

- Lighting Control for added safety & security

- Light an exterior pathway from inside the car or by arming your system
- Light an interior pathway or stairway based on motion



## **Energy Management**

M1 Control Systems help protect the environment and reduce utility bills, without sacrificing comfort. Our energy management solutions provide convenient control and scheduling capabilities for :

- Lighting
- Climate Control
- Shades/Blinds
- Electric Water Heaters
- Other Electrical Devices



## **Home & Business Control**

When you consider the size and complexity of today's homes and businesses, keeping up with everything can be overwhelming. M1 Control Systems allow control of the entire home or business from a single, easy to use, sophisticated control system.

In addition to security and energy management, also control:

- Sprinklers
- Water Shut Off
- Audio Systems
- Garages/Doors/Gates
- Pool/Spa pumps
- and more...



# Experience the M1 Control System



## User Interfaces

With today's hectic lifestyle, your clients need a system that provides simple control of their home or business. M1 systems offer a variety of options to control home or business, on site or off site, including:

- Simple Arming Stations
- State-of-the-Art Touchscreens
- LCD Keypads
- Keychain Remotes
- Phones
- PCs/PDAs
- Internet

## Stay in Constant Contact with the System

M1 can provide on site alerts via voice announcements and keypad alerts. M1 systems also provide notification of important events via phone, email or text message.

On site and off site notifications include:

- Security & Safety Alerts
- Critical Temperatures
- Water Leaks
- Visitors/Deliveries
- Child Arriving Home from School
- Reminders for:
  - Replacing Air & Water Filters
  - Replacing Smoke/Carbon Monoxide Detector batteries
  - Important Dates



## Lighting

With M1, lighting control goes beyond energy savings to provide added beautification and convenience.

- Easily activate lighting scenes that set multiple lights to varying levels for just the right amount of light for any activity.
- Low energy lights can be activated based on your schedule allowing you to move from room to room without turning lights on and off.
- Selected lights can automatically turn on when it is dark outside and back off when it is light outside.



## M1 GOLD

### Security & Automation Control

M1 Gold is commonly referred to as a Cross Platform® control due to the fact that it can be networked with other industry standard systems. A 500+ word vocabulary pleasantly announces system status, configurable in any sequence, to alleviate user intimidation. The built-in voice dialer can call up to 8 phone numbers and alert owners of status changes; such as, critical temperature levels, water leaks, children arriving home from school, etc. Built-in telephone remote control allows you to control temperature settings, water heater, garage door, lighting, and sprinklers plus arming/disarming system and more; by simply picking up the phone – any phone. Optional Ethernet port allows for programming, monitoring, and control over LAN or Internet without the need for a dedicated “24/7” server. Integrators and Installers will value the flash memory firmware, RS-232 serial port, Ethernet connectivity option, and PC programming in English text. The LCD keypads have programmable task keys, a navigation key to access system status and automation tasks, plus large character display.



### SECURITY • LIGHTING • ENERGY & TASK MANAGEMENT ENTERTAINMENT • VIDEO SURVEILLANCE • REMOTE CONTROL



ELK-M1GCB

#### M1 Gold Control board only (in clam shell case)

Main M1 Gold circuit board in the clam shell protective case - “the brick”.

- For use in structured wiring enclosures, trim-outs on pre-wired jobs, or as a spare or replacement board.
- Can be mounted directly to almost any surface.
- Plug-in terminal blocks are not included, order separately as ELK-M1BLOCKS.
- Size: 8.375”W x 10” H x 2” D



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ELK-M1GOLD

#### M1 Gold Control Board in SWB14 Metal Enclosure



7 62158 56000 2

#### Available Options for M1 Control Family:

- Ethernet Port
- Temperature Sensors
- Door Entry Control
- Serial Port Expanders
- Input/Output Expanders
- Two-Way Listen-In Kit
- Wireless Interface
- Audio/Video Interface



ELK-M1GSYS3



7 62158 56011 8

#### M1 Gold Control Kit with Enclosure (No Keypad)

This “Ready to Install” value package includes:

- M1 Gold Control Board
- ELK-SWB14 Enclosure
- ELK-1280 8Ah Battery
- ELK-TRG1640 AC Transformer
- ELK-73 Echo Paintable Interior Speaker
- ELK-RJSET Telco Jack & Cord





### M1 GOLD FEATURES:

- Flash Memory - Allows field updates to firmware
- 16 On-board Input Zones, expandable to 208, analog supported
- Wireless Capability, up to 144 zones with ELK Wireless Receiver
- 13 On-Board Outputs: 1 voice driver/siren, 1 siren driver/voltage, 1 form C relay, and 10 low current (50 mA)
- Two Way Listen-in capability:
  - For Central Station alarm verification
  - User activated through telephone remote control
- Voice announcement of alarms, zone descriptions, status, etc.
  - 500+Word / Phrase Vocabulary
  - Link up to 6 Words / Phrases per announcement
  - 10 custom recordable Words / Phrases
- Built-in Telephone Remote makes any phone a keypad
- Integrated Voice Dialer uses vocabulary or custom word / phrases
- Phone Number Capacity: 8
- On-Board Serial Port, expandable to 8 Serial Ports
- Plug-in Terminals make service and pre-wires a snap!
- Installer Telephone (buttset) Test feature
- Master Power Switch and Low Battery Disconnect
- Multiple Auxiliary Power Terminals
- Built-in Volt and Current Meter
- Time/Date stamped 512 Event History Log
- Menu driven keypad programming - No Manual Required!
- Supports 4 wire (any zone) and 2 wire (zone 16) smoke detectors
- Includes Fire Alarm Verification Routine
- Can be partitioned into 8 separate areas and accounts
- 199 User Codes (4 or 6 digit) with assignable authorities
- Arm levels: Away, Stay, Stay Instant, Nite, Nite Instant, Vacation
- Hardware "Watchdog" and Nonvolatile EEPROM Memory
- Telephone Line Fault with alarm output
- True Modem for fast reliable upload/download
- Digital Dialer: SIA, Contact ID, 4 + 2, and Pager (8 phone numbers)
- ELKRP PC Programming Software includes conflict resolution
- Powerful "Whenever/And/Then" RULES Programming
- Rules utilize easy to understand text based references
- Control Lighting using on-board 2-way Power Line Carrier (PLC) or RS-232 Serial Port for On,Off, Pre-set Dim, All On, All Off, and Scenes/Commands
- Astronomical Clock for Sunset/Sunrise calculation and activation
- Transmit and Receive Custom Serial ASCII strings
- Read Temperature Sensors and communicate with up to 16 Thermostats
- Turn on Tasks, Lights, and Outputs via Keypad, Touchscreen, and PC browser
- Interfaces with a broad range of other systems
- Heavy duty - 2.5 Amp power supply w/ 1 Amp continuous
- Dynamic Battery Test, Zone Voltage Display, and Voltmeter
- PTC (fuseless) resettable overload protection

### M1 Gold Control Kit with Enclosure



**ELK-M1GSYS4**



This "Ready to Install" value package includes:

- M1 Gold Control Board
- **ELK-M1KP LCD Keypad**
- ELK-SWB14 Enclosure
- ELK-1280 8Ah Battery
- ELK-TRG1640 AC Transformer
- ELK-73 Echo Paintable Interior Speaker
- ELK-RJSET Telco Jack & Cord

### M1 Gold Control Kit with Enclosure



**ELK-M1GSYS4S**



This "Ready to Install" value package includes:

- M1 Gold Control Board
- **ELK-M1KP2 LCD Keypad**
- ELK-SWB14 Enclosure
- ELK-1280 8Ah Battery
- ELK-TRG1640 AC Transformer
- ELK-73 Echo Paintable Interior Speaker
- ELK-RJSET Telco Jack & Cord

### M1 Gold Control Kit without Enclosure



**ELK-M1GK**



This "Ready to Install" value package includes:

- M1 Gold Control Board
- **ELK-M1KP LCD Keypad**
- ELK-1280 8Ah Battery
- ELK-TRG1640 AC Transformer
- ELK-73 Echo Paintable Interior Speaker
- ELK-RJSET Telco Jack & Cord

### M1 Gold Control Kit without Enclosure



**ELK-M1GKS**



This "Ready to Install" value package includes:

- M1 Gold Control Board
- **ELK-M1KP2 LCD Keypad**
- ELK-1280 8Ah Battery
- ELK-TRG1640 AC Transformer
- ELK-73 Echo Paintable Interior Speaker
- ELK-RJSET Telco Jack & Cord

**28" structured wiring box may be ordered separately.  
Part # ELK-SWB28**



## M1EZ8

### Economical Security & Automation Control

M1EZ8 offers an economical solution for installations not requiring the voice and telephone remote control capability of the M1 Gold. Built on the same software architecture as M1 Gold, the possibilities for expansion, networking with other systems, and option for programming and control over the internet make M1EZ8 an exceptional value. The chart below outlines the key differences between the M1 Gold and M1EZ8.

#### Key Differences Between M1 Gold and M1EZ8

M1 Gold	M1EZ8
Voice Capability <ul style="list-style-type: none"> <li>Voice Announcements</li> <li>Built-in Telephone Remote Control</li> <li>Integrated Voice Dialer</li> </ul>	No Voice Capability
16 On-board Input Zones, expandable to 208	8 On-board Input Zones, expandable to 200
13 On-board Outputs, expandable to 205 <ul style="list-style-type: none"> <li>1 voice driver/siren</li> <li>1 siren driver/voltage</li> <li>1 form C relay</li> <li>10 low current voltage (50 mA)</li> </ul>	12 On-board Outputs, expandable to 204 <ul style="list-style-type: none"> <li>1 siren driver/voltage</li> <li>1 form C relay</li> <li>10 low current voltage (10 mA)</li> </ul>
On-Board Serial Port	Serial Port available with addition of ELK-M1EZ8MSI Main Serial Port Interface
Plug-In Terminals	Non-removable screw terminals
4 Power Terminals - 3 Auxiliary, 1 Switched Smoke	2 Power Terminals, 1 Auxiliary, 1 Switched Smoke
Master Power Switch and Low Battery Disconnect	Master Power Switch and Low Battery Disconnect switch available with addition of ELK-965
Zone Voltage Display and Volt/Current Meter	Zone Voltage Display and Voltmeter
Two Way Listen-In Capability: <ul style="list-style-type: none"> <li>For Central Station Alarm Verification</li> <li>User activated through telephone remote control</li> </ul>	Two Way Listen-In Capability: <ul style="list-style-type: none"> <li>For Central Station Alarm Verification Only</li> </ul>



ELK-M1EZ8CB

#### M1EZ8 Control board only

- For use in structured wiring enclosures, trim-outs on pre-wired jobs, or as a spare or replacement board
- Can be mounted directly to almost any surface.
- Mounting Hardware Included
- Size: 6.5" W x 6.75" H x 1.5" D



#### ELK-M1EZ8

#### M1EZ8 Control Board with 12" x 12" Metal Enclosure



ELK-M1EZ8KB Pictured

#### M1EZ8 Control Kits With Enclosure

These "ready to install" value packages include the M1EZ8 Control, UB12 metal enclosure, either a M1KP LCD Keypad (ELK-M1EZ8KB) or the smaller M1KP2 LCD Keypad (ELK-M1EZ8KBS), ELK-1250 5Ah battery, ELK-RJSET, SP35 speaker, plus Lifetime warranted ELK-TRG1640 transformer.

#### ELK-M1EZ8KB

#### ELK-M1EZ8KBS



ELK-M1EZ8KS Pictured

#### M1EZ8 Control Kits Without Enclosure

These "ready to install" value packages include the M1EZ8 Control, either a M1KP LCD Keypad (ELK-M1EZ8K) or the smaller M1KP2 LCD Keypad (ELK-M1EZ8KS), ELK-1250 5Ah battery, ELK-RJSET, SP35 speaker, plus Lifetime warranted ELK-TRG1640 transformer.

#### ELK-M1EZ8K

#### ELK-M1EZ8KS







## 7" LCD Color Touchscreen / Monitor

The ELK-TS071 is an in-wall mount 7" LCD color touchscreen designed to operate with the M1Gold and M1EZ8 controls. It features a super bright TFT display, powerful microprocessor, and includes Elk's Remote Management Software (RMS). The easy to use graphical interface is designed to simplify the operation of both security and automation. Its low profile design satisfies the most discriminating taste.

This touchscreen connects to an M1Gold or M1EZ8 control over a local network via its on-board Ethernet port (ELK-M1XEP required to connect the M1Gold or M1EZ8 control to network). When connected to a LAN that has high speed internet service, the TS071 is fully capable of internet browsing. Internet Explorer is pre-installed as part of the Windows CE operating system.

The RMS software allows control of many aspects of the system including security, lighting, climate, outputs, distributed audio etc. The software also permits viewing of video imagery from certain brands of IP access cameras and DVRs\*, with no additional equipment to purchase! RMS also allows access to up-to-date weather and traffic information and provides "Links" for easy access to frequently visited websites.

- Low Profile, Streamlined Bezel Design
- Dimmable Backlight
- 1 Ethernet 10/100 Port
- 2 USB "Host" Accessory Ports
- Built-in Speaker and Microphone
- Ships complete with RMS Remote Management Software
- Screen Type: Full TFT, Color, Super Bright Display
- Screen Size: 7" Diagonal
- Resolution: 800 x 480 Wide VGA
- Processor: 312 MHz ARM processor
- Memory: 64 MB DRAM, 128 MB NAND Flash
- Operating System: Windows CE
- Overall size: 8.875"W x 6.3" H x .3" D

\*For an updated list of supported video cameras, DVRs, and Audio components please visit [www.elkproducts.com](http://www.elkproducts.com)

### ELK-TS071

Touchscreen with Power Supply

- Includes 12VDC, 1.5 Amp Plug-in Power Supply (ELK-P1216)



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### ELK-TS071P

Touchscreen with POE (Power Over Ethernet) Components

- Includes Power Injector and Power Splitter (ELK-POE12K)



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**IMPORTANT NOTE:** The ELK-TS071 cannot be used directly with a POE switch or hub. To power via POE over network cabling, order the ELK-TS071P which includes a PoE injector and splitter, or purchase the POE injector and splitter separately (ELK-POE12K).

The TS071 is the successor to the older TS07 touchscreen and utilizes a smaller rough opening, [7.5" x 5.38"] vs. [8" x 6.31"].



**ELK-M1KP**



**ELK-M1KPB**



### LCD Keypad

The ELK-M1KP is an addressable LCD Keypad for M1 Controls. It features a 32 character, backlit display with adjustable intensity and extra large character fonts, improving readability. Six (6) function ("F") keys can be programmed to contact emergency services or perform tasks; such as, controlling lights, watering the lawn, closing or opening the garage door, etc. The ELK navigation keys easily guide you through the full list of automation tasks, programming, systems diagnostics, and more. An optional plug-in proximity reader is available allowing prox card or fob arming, disarming, door strike control, etc. The fold down door features magnetic closure and can be completely removed, if desired.

- Backlit, Large Character LCD Display, 16 x 2 lines
- Six (6) programmable function keys
- Unique Menu Navigation/Direction keys
- Adjustable volume for tones/chime
- Accepts Plug-in Proximity Reader (ELK-M1PR) or "External" 26 bit Wiegand Prox Reader
- Built-in Temperature Sensor
- Input for 1 Supervised Zone
- One Programmable "Switched Positive" Voltage Output
- Exit, Stay, Chime, and Bypass Keys
- Programmable display of time, date, & temperature
- Displays system diagnostics and settings

- Input Connection: 6 Pin Plug-In "Flying Lead" Connector (Included)
- Operating Voltage: 13.8 Volts DC
- Current Draw: 40-50mA Idle (low backlight, sound silent) 160mA fully active
- Color: Glacier White
- Size: 6.875" x 5.25" x 1.375"

Connect any 26-bit Wiegand External Proximity Reader to the ELK-M1KP or ELK-M1KPB using the **ELK-W035A** wiring harness (not included).

### Two Models Available:

ELK-M1KP  
Green LCD Display

ELK-M1KPB  
Blue LCD Display



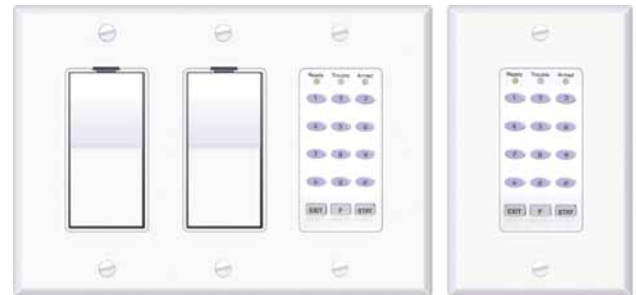
**ELK-M1KPAS**



### Arming Station

Small, economical, arm/disarm station for M1 Controls fits into single gang box and utilizes a standard decorator style faceplate (not included). Displays basic system status with 3 LEDs: Green "Ready", Yellow "Trouble", and Red "Armed". The 12 button keypad is backlit with blue LEDs and has quick arm keys for "Exit" and "Stay". The M1KPAS also provides access to six (6) programmable function operations by pressing the "F" (Function) key followed by one of the keys (1 thru 6).

- Blue Backlit Keys
- Instant Activation of 6 Tasks
- Built-in Piezo Sounder
- Quick Arm Exit & Stay Keys
- LED Status Indication
- Connection: 4 Pin Plug-in "Flying Lead" Connector (Incl.)
- Color: White
- Operating Voltage: 13.8VDC
- Size: 1.81" x 2.75" x 1.13"



## Keypad Feature Comparison

	ELK-M1KP	ELK-M1KPB	ELK-M1KPAS
<b>Physical Dimensions</b>	6.87"W x 5.25"H x 1.32"D	6.87"W x 5.25"H x 1.32"D	1.81"W x 2.75"H x 1"D
<b>Door Cover</b>	Yes	Yes	No
<b>Zone Input</b>	Yes (1)	Yes (1)	No
<b>Programmable Output</b>	Yes (1)	Yes (1)	No
<b>Optional 26-Bit Wiegand Proximity Reader</b>	Yes- Internal & External	Yes- Internal & External	No
<b>Internal Temp Sensor</b>	Yes	Yes	No
<b>Function "F" Keys</b>	6	6	6- Press "F" Key, then 1-6
<b>LCD Backlighting</b>	Green	Blue	N/A
<b>Key Backlighting</b>	Amber	Amber	Blue
<b>Mounting Options</b>	Surface Mount Only	Surface Mount Only	Mounts in Std. Electrical Box



**ELK-M1KP2**



### Low Profile LCD Keypad

The ELK-M1KP2 is a low profile, addressable LCD Keypad for M1 Controls. It features a 32 character blue/white backlighted display, blue lighted keys, 4 programmable function keys, along with the ELK menu navigation keys. It may also be recessed, "flush" mounted, using a separately purchased back box kit (ELK-M1BBK2). The M1KP2 is compatible with "external" 26 bit Wiegand proximity readers, allowing cards or fobs to be used for arming, disarming, or limited door strike control, etc.

- Blue/white Backlighted Hi-Contrast LCD Display
- Four (4) Programmable Function Keys
- Unique Menu Navigation/Direction Keys
- Tones/Chime
- Accepts "External" 26 bit Wiegand Prox Reader
- Input for 1 Supervised Zone
- One Programmable "Switched Positive" Voltage Output
- Exit, Stay, Chime, and Bypass Keys
- Programmable display of time & date
- Displays system diagnostics and settings
- Surface mounts to a standard 1 or 2 gang electrical box
- Optional recessed, "flush" mount, kit available (ELK-M1BBK2)
- Connection: 6 Pin Plug-in "Flying Lead" Connector (Incl.)
- Color: White
- Operating Voltage: 13.8VDC
- Current Draw: 40-50 mA Idle (low back light level, sounder silent) 160 mA Fully Active (max. back light & sounder active)
- Size: 4.658" x 5.5" x .95" (.375" D with recess mount)
- Optional ELK-M1BBK2 Recess Back Box Size: 4.312" x 5.375" x 1"

Connect any 26-bit Wiegand External Proximity Reader to the ELK-M1KP2 using the **ELK-W039A** wiring harness (not included).



**ELK-M1KP3**



### LCD Keypad

The ELK-M1KP3 is an addressable, surface mount LCD Keypad for M1 Controls. It features a 32 character blue/white backlighted display, blue lighted keys, 4 programmable function keys, along with the ELK menu navigation keys. The M1KP3 is compatible with "external" 26 bit Wiegand proximity readers, allowing cards or fobs to be used for arming, disarming, or limited door strike control, etc. It features a hinged door over the keys.

- Blue/white Backlighted Hi-Contrast LCD Display
- Four (4) Programmable Function Keys
- Unique Menu Navigation/Direction Keys
- Tones/Chime
- Accepts "External" 26 bit Wiegand Prox Reader
- Input for 1 Supervised Zone
- One Programmable "Switched Positive" Voltage Output
- Exit, Stay, Chime, and Bypass Keys
- Programmable display of time & date
- Displays system diagnostics and settings
- Surface mount only without electrical box
- Connection: 6 Pin Plug-in "Flying Lead" Connector (Included)
- Color: White
- Operating Voltage: 13.8VDC
- Current Draw: 40-50 mA Idle (low back light level, sounder silent) 160 mA Fully Active (max. back light & sounder active)
- Size: 3.97" x 5.425" x 1.19"

Connect any 26-bit Wiegand External Proximity Reader to the ELK-M1KP3 using the **ELK-W039A** wiring harness (not included).

## Keypad Feature Comparison

	M1KP2	M1KP3
<b>Physical Dimensions</b>	4.65"W x 5.5"H x 1.32"D	3.97"W x 5.43"H x 1.19"D
<b>Door Cover</b>	No	Yes
<b>Zone Input</b>	Yes (1)	Yes (1)
<b>Programmable Output</b>	Yes (1)	Yes (1)
<b>Optional 26-Bit Wiegand Proximity Reader</b>	Yes- External Only	Yes- External Only
<b>Internal Temp Sensor</b>	No	No
<b>Function "F" Keys</b>	4	4
<b>LCD Backlighting</b>	Blue	Blue
<b>Key Backlighting</b>	Blue	Blue
<b>Mounting Options</b>	Surface or Flush Mount*	Surface Mount Only

\*requires M1BBK2



## ELK-RM

### Remote Management Software (RMS)

Consumer Software Designed for PCs and Elk Touchscreens\*



RMS provides a powerful graphic interface to the M1Gold and M1EZ8 controls. This redesigned software allows control of many aspects of the system including security, lighting, climate, tasks, outputs, audio\*\* and more. RMS also provides access to video imagery from certain brands of IP accessible cameras and DVRs, weather information, and links to frequently visited websites.

The software connects to an M1Gold or M1EZ8 control through the main serial port or over a local network (network connectivity requires the ELK-M1XEP Ethernet Interface). Software setup is a snap with the convenient synchronize feature, which automatically populates each page based on system programming. RMS can be customized to the installation by hiding unused categories.

#### System Requirements:

- Supported Operating Systems (PC): Windows 98SE, ME, 2000 (Service Pack 3), XP Home & Pro (Service Pack 2), or Server 2003
  - Computing Device running Microsoft .NET 2.0 Framework
  - Total Disk Space Requirements: 285 MB (280 MB for .NET 2.0 and 5 MB for ElkRM)
  - Memory Requirements: Minimum 64 MB RAM
  - Screen Resolution: 800 x 480
- \* RMS included on Elk Touchscreens  
\*\* Distributed Audio partners currently include: Russound, Nuvo, and Proficient. Additional hardware and firmware revisions may be required. For complete details including a listing of compatible partner product model numbers, including IP cameras, DVRs, etc. please visit [www.elkproducts.com](http://www.elkproducts.com)



#### When Ordering ELK-RM Please Note:

RMS PC Edition requires a product key license to obtain full functionality with a control. A product key license may be purchased through your Authorized Elk Reseller. The serial number from the control must be provided to the reseller when ordering. Until a product key has been purchased and entered into RMS, it will run in DEMO mode, allowing only limited functionality. If you wish to receive the license key via email without having a CD shipped to you, please order Part# ELK-RMNCD



#### ELK-RMDESIGNER

Due to these licensing requirements, ELK has chosen to sell this product directly to the professional installers and not through distribution. Visit [www.elkproducts.com](http://www.elkproducts.com) for more details.

#### Graphic Designer Software for ElkRMS

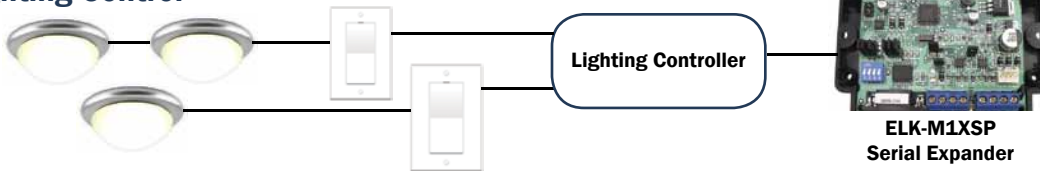
RM Designer Software allows complete customization of the ElkRM Graphic User Interface Software for ELK-M1 Security & Automation Controls. Create totally unique custom pages, including backgrounds, colors, buttons, text, information boxes, etc.

- Provides simple to complex graphic user interface customization
- Create graphic interfaces of any size or resolution
- Easy to use background and button creation tools
- Synchronization feature allows RMDesigner to display item descriptions programmed into the M1 Control
- Save setup & graphic changes to individual project folders for future use
- Build designs directly to USB Flash drives or other removable storage for easy transfer to ELK touchscreens
- Built-in setup utility for audio, video, and links
- Easily share designs with Import feature
- Supported Operating Systems: Win 2000, XP, Vista, Server 2003
- Requires .NET 2.0 Framework
- Requires 20MB or more hard drive space
- Requires minimum 1GHz Processor
- Requires minimum 1GB RAM

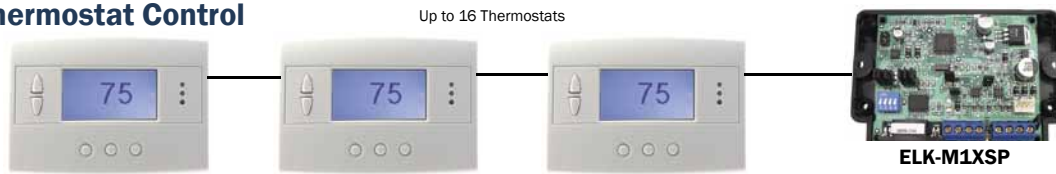
**Note: ElkRM skin with custom logo on Main (Home) page is available - ELK-CFD256. Call for details.**

# Integration & Expansion at a Glance

## Lighting Control



## Thermostat Control

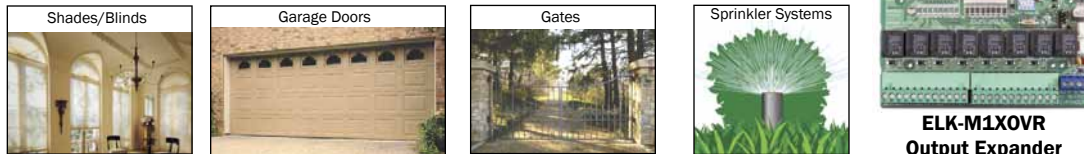


## Wireless Expansion

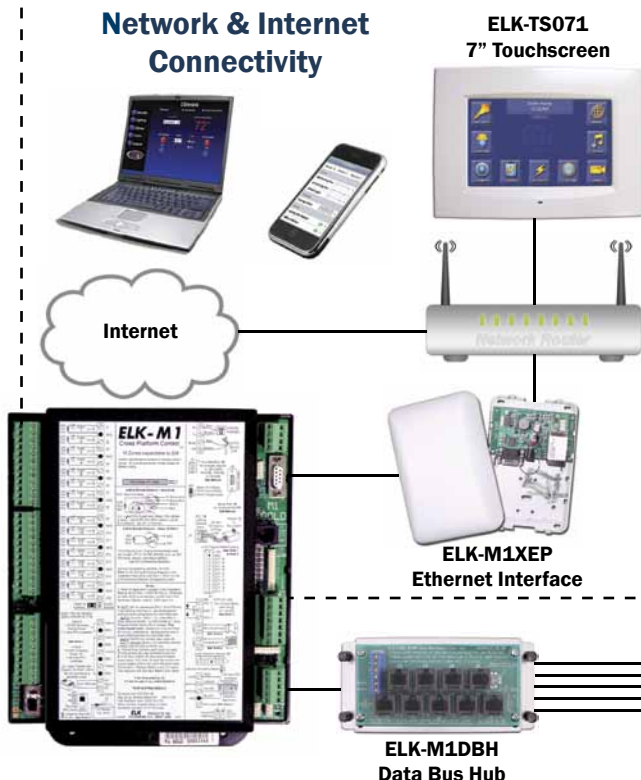
Compatible transmitters can be purchased through your local distributor. See wireless receiver specifications for information on compatible transmitters



## Output Expansion



## Network & Internet Connectivity



For more details on integration and expansion, including manuals and hookup diagrams, please visit [www.elkproducts.com](http://www.elkproducts.com)

# M1 & EZ8 Accessories



**ELK-M1XEP**



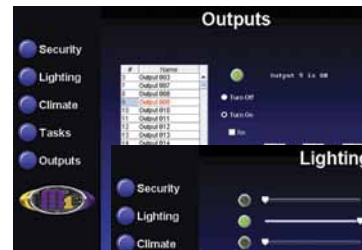
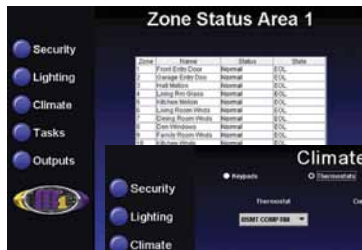
## M1 Ethernet Port Interface

Allows M1 Controls to be connected to the Internet or LAN (network) for programming, monitoring, remote control, email notifications, etc. Requires permanent broadband connection; CableModem, DSL,T1, etc.

- Includes Web Server with embedded Java Applet "M1 Virtual Keypad"
- Secure connection with password protection and HTTPS encryption
- Event notification via Email (SMTP)
- Supports automatic Dynamic DNS Updates with providers using the DynDNS protocol
- Supports Network Time Protocol for synchronizing the M1Gold/M1EZ8 clock with an Internet time server
- LED indicators for Power, Link, and Data
- Flash Memory for firmware updating
- Operating Voltage: 12VDC Regulated
- Current Draw: Approximately 300mA
- Housing Size: 4.25" x 6.375" x 2.125"
- Board Size: 2.25" x 3.95"
- Includes ELK-P1216 Switching Power Supply and Serial Cable



Virtual Keypad Screens



**ELK-M1EZ8MSI**

## Main Serial Port for EZ8

The main serial interface for ELK-M1EZ8, required for interfacing M1EZ8 with a PC for upload/download. Also required when adding the M1XEP Ethernet port. Baud rate programmable up to 115,200 baud.

- Powerline lighting pass-through connector for PSC05 (or equivalent) interface
- Housing Size: 4.375" x 3" x 1.25"
- Board Size: 3.375" x 2.25"



**ELK-M1DBH**



## M1 Data Bus Hub

For easy connection of expanders & keypads. The M1DBH accepts up to 9, RJ45 equipped CAT5 or CAT6 cables, and series connects the data A & B lines so the data bus may be terminated properly.

- Designed for multiple home run cables
- Internally connect Data A & B lines from previous device into next device out
- Multiple Hubs may be connected for expansion
- EOL Bus Termination done on-board with included RJ-45 Terminator Plug
- Input Connectors: Elevator Screw Terminals
- Output Connections: RJ-45, 8-Pin Jacks
- Mounting Plate Size: 6.5" x 3" x .5"
- Circuit Board Size: 5" x 2.5" x .75"
- Easily snaps into Elk enclosure



**ELK-M1DBHR**



## M1 Data Bus Hub for Retrofit

Active RS-485 data bus hub for retrofitting older panels with multiple homerun, 4 conductor keypad/data wires with M1 Controls. The end of each cable is EOL terminated to insure proper operation and supervision.

- Splits main data bus into 4 managed RS-485 branches.
- Each branch can have 2 parallel home run cables for total of 8 home runs
- Works with standard 4 conductor home run wiring
- Inputs: Elevator Screw Terminals (4 position)
- Output: Elevator Screw Terminals (4 position)
- Includes ELK-SWG for easy mounting in ELK enclosure
- Circuit Board Size: 4.9" x 2.75" x .5"





### M1 Wireless Receiver for GE Crystal Transmitters

Wireless (RF) Receiver and Input Expander for use with M1 Controls.

- Adds up to 144 individual wireless zones (sensors/points)
- **Compatible with GE Crystal Transmitters**
- Operates from 4 wire data bus
- Multiple receivers (up to 11) may be connected to a single M1 or M1EZ8 Control for redundancy or greater coverage
- Flash Memory for firmware updating
- Sensitivity: >105 dbm
- Operating Temperature: 0 to +120 degrees F
- Operating Voltage: 12 Volts D.C.
- Current Draw: 70mA
- Indoor Range: 300 to 500 ft. line of sight (Up to 1000 ft. with ground plane antennas)
- Housing Dimensions: 6.5" x 4.5" x 1"
- Antenna Length: 9.25"



### M1 Wireless Receiver for Ademco 5800 Series Transmitters

Wireless (RF) Receiver and Input Expander for use with M1 Controls.

- Adds up to 144 individual wireless zones (sensors/points)
- **Compatible with Ademco 5800 Series one way transmitters**
- Operates from the 4 wire M1 RS485 Data Bus
- Multiple receivers (up to 11) may be connected to a single M1 or M1EZ8 Control for redundancy or greater coverage
- Flash Memory for firmware updating
- Sensitivity: >105 dbm
- Operating Temperature: 0 to +120 degrees F
- Operating Voltage: 12 Volts D.C.
- Current Draw: 70mA
- Indoor Range: 300 to 500 ft. line of sight (Up to 1000 ft. with ground plane antennas)
- Housing Dimensions: 6.5" x 4.5" x 1"
- Antenna Length: 8.6"



### M1 16 Zone Input Expander

Adds 16 hardwired zones (with or without EOL resistor supervised) to the M1 Controls. Up to 12 may be added, increasing the M1Gold to 208 and the M1EZ8 to 200 total zones (inputs)

- Operates from 4-wire data bus.
- Dip Switch address settings
- Flash Memory for firmware updating
- Plug-in terminal strips
- Status and diagnostic LED
- Operating Power Range: 9 to 14VDC
- Current Draw: 65mA
- Size: 6" x 3.25" x .75"
- Includes ELK-SWG for easy mounting in ELK enclosure



### M1 16 Output Expander, 8 Voltage & 8 Relays

Adds 16 outputs (8 voltage, 8 relays) to M1 Controls. Voltages can be used to trigger low current devices (50 mA max. each). Operates from 4-wire data bus. Up to 12 output expanders may be used for a total of 205 outputs. Option: convert 8 voltage outputs to relays using M1RB Relay Board.

- Operates on the 4 wire Data Bus
- Up to 12 Output Expanders may be added
- DIP Switch address settings
- Flash Memory for Firmware Updating
- Includes 12 conductor "Flying Lead" Wire Harness
- Status LED with Diagnostic Display
- Relays: SPDT rated for 7A @ 28VDC, 10A @ 125 VAC.
- Voltage Outputs: 12VDC @ 50mA each
- Operating Power Range: 9 to 14VDC
- Current Draw 65mA Nom., 330 mA Max
- Size: 6" x 3.25" x .75"
- Includes ELK-SWG for easy mounting in ELK enclosure



### M1 Relay Board, Plug-in

Used to convert the M1 Controls voltage outputs into SPDT relays.

- Provides 8 Relay Outputs
- Plugs directly into M1 Controls or ELK-M1XOVR
- Includes ELK-SWG for easy mounting in ELK enclosure
- Relay Contact Ratings: 7A @ 28VDC, 10A @ 125VAC
- Wire harness length: 24"
- Current draw: 0mA idle, 250mA max
- Size: 6" x 3.25" x .75"





**ELK-M1KAM**



### M1 Door Access Module

A single door access interface module for use with M1 Controls. It installs in place of an M1 Keypad and operates from the RS-485 4-Wire Keypad Data Bus.

- Input for a standard 26 bit Wiegand Reader
- Input for a Dallas iButton Reader
- (3) 12VDC Outputs for Door Held Open Alarm (50mA), Ready To Arm, and System Armed indications (10mA)
- (2) Supervised Inputs for RTE (Request To Exit) Button/Device and Door Status Sensor
- Four selectable Time settings for "Request to Exit" and "Door Held Open"
- Heavy Duty Form "C" Relay Contacts for Switching Door Strike Power
- Connections: Plug-In Screw Terminals, 16 Position
- Operating Voltage: 13.8VDC
- Current Draw: Less than 30 mA with minimum activity, 44 mA fully active
- Housing Dimensions: 4.25" x 6.375" x 2.125"
- Circuit Board Dimensions: 3.95" x 2.875" x .95"
- Hardware Watchdog Circuit

**ELK-MA110**



### iButton™ Reader Probe & Plate Only

Applications include:

- High security access control
- Simple on/off switching
- Password authentication

**ELK-MA101**



### iButton™ Touchkeys

Electronic key with unique 48-bit serial number

- 10 pieces
- Required with ELK-MA110



**ELK-M1PR**

### Keypad Plug-in Proximity Reader

Plugs into the connector inside the ELK-M1KP keypad.\* Allows a proximity card or fob to be used to quickly arm, disarm, operate a door strike, etc.

- Reader format: 26 bit Wiegand
- Read Distance: ~3/8"
- 5 pin plug-in connector
- Operating voltage: 5VDC from keypad
- Current Draw: ~20mA

\*Will not fit other keypads- see ELK-106055



**Requires M1PRC cards or M1PRF fobs**



**ELK-106055**

### Exterior Proximity Reader

Allows a proximity card or fob to be used with M1 Controls to quickly arm, disarm, operate a door strike, etc.

- Connects to any M1KP Keypad with ELK-W035A - use ELK-W039A for M1KP2 & M1KP3 Keypads
- Can be used on any system that is 26 bit Wiegand compatible
- Weatherproof - suitable for outdoor installation
- Size: 3 1/8" H x 1 7/8" W x 1"D
- Color: Black
- Operating Voltage: 12VDC
- Current draw: 50mA



**Requires M1PRC cards or M1PRF fobs**



**ELK-M1PRC**



### M1 Proximity "Clam Shell" Cards

For use with the add-on proximity readers: ELK-M1PR for the ELK-M1KP keypad or ELK-106055 exterior reader.

- Comes in packs of (10) ten
- Credit Card Size
- Color: Off white
- Size: 3.375" x 2.125" x .0625"



**ELK-M1PRF**



### M1 Proximity Key Fobs

For use with the add-on proximity readers: ELK-M1PR for the ELK-M1KP keypad or ELK-106055 exterior reader.

- Comes in packs of (10) ten
- Attaches to key chain
- Color: Black
- Size: 2.125" x 1.3125" x .25"



**ELK-101236**

### NESS Square D/Clipsal C-Bus Interface for M1 Controls

Designed and built by Ness Products, this interface is intended for connecting an ELK-M1 control to a Clipsal C-Bus Lighting and Control Network.

- Controls up to 255 individual C-Bus lights or outputs.
- True 2 way communications on the C-Bus network
- Operating Voltage: 12 Volts D.C.
- Current Draw: Max 60 mA (Stand by 30 mA)
- Board Size: 4.33" x 4.53" x .9"





**ELK-M1XSP**

### M1 Serial Port (RS-232) Expander, Thermostat/Lighting Interface

Additional serial port(s) for M1 Controls to interface other manufacturer's equipment utilizing RS-232 ASCII commands.

- Adapts HVAC Communicating Thermostats to M1 Controls
- Allows M1 Controls to interface with a variety of lighting products
- Adjustable baud rate 300 to 38,400
- Up to 7 M1XSP Expanders may be added to M1 controls
- Operating Voltage: 12 Volts DC
- Current Draw: 31mA
- Housing Size: 4.375" x 3" x 1.125"
- Circuit Board Size: 3.5" x 2.75"

Some Partner Manufacturers; such as AMX, Control 4, and Crestron, interface through the main serial port. Visit [www.elkproducts.com](http://www.elkproducts.com) for more details and a complete list of partner manufacturers.



**ELK-M1XZW**

### Z-Wave Lighting Interface

A Radio Transceiver interface designed to allow M1 Controls to interface with Z-Wave enabled devices.

- Flash Memory Firmware Updating
- Connects to the M1 Data Bus
- Programming and Status LEDs
- Range: Up to 100 feet (Line of site) to the closest Z-Wave enabled product
- Signal (Frequency) 908.42 MHz
- Housing Size: 4.25" x 6.375" x 2.125"
- Board Size: 2.25" x 3.95"
- Current Draw: 60mA
- Operating Voltage: 12 Volts DC



**ELK-IP232**



### Ethernet to RS-232 Serial Bridge

The ELK-IP232 may be used to connect any standard serial communications device to an Ethernet network. It is able to both initiate and accept network connections. Once a network connection is made, the remote networked device is virtually connected to the serial device on the other side of the Bridge. Both the network device and the serial device can send and receive messages to and from each other.

- Supports both UDP and TCP protocols
- Up to 12 simultaneous TCP-IP connections
- Up to twelve (12) "Rules" may be programmed to make outgoing connections.
- Selectable baud rate from 300 to 115200 baud
- 802.3 compliant 10/100 Mbit interface
- Software and Hardware Handshaking
- Operating Voltage: 12 Volts D.C.
- Current Draw: Approx. 135 mA
- Dimensions: 3.85" L x 1.7"W x 0.93" D
- RS232, DB9M 9-pin serial port connection
- RJ45 8-pin Network Jack
- LED Indicators for Power, Link, and Data
- Includes: Serial Cable and 12V Supply



**ELK-M1TWK**

### M1Gold Two Way Listen-in Kit

Complete kit for two way communication with **M1Gold** control

- Includes two-way interface, ELK-M1TWI, plus a two way speaker/microphone, ELK-M1TWS.
- Color: Interface-Black, Speaker- White
- Speaker Size: 4.25" X 4.25" X 2.13"
- Interface Size: 4.5" x 3" x 1.2"



**ELK-M1EZ8TWK**

### M1EZ8 Two Way Listen-In Kit

Complete kit for two way communication with **M1EZ8** control

- Includes two-way interface, ELKM1EZ8TWI, plus a two way speaker/microphone, ELK-M1TWS
- Color: Interface-Black, Speaker- White
- Speaker Size: 4.25" X 4.25" X 2.13"
- Interface Size: 4.5" x 3" x 1.2"



**ELK-M1TWSF**

### M1 Two Way Flush Mount Speaker/Microphone

Flush Mount 12 Watt Speaker and Microphone combination for use with the M1 Controls two way listen-in interfaces

- Fits single gang electrical boxes
- Requires 4 conductor cable.
- Up to 12 may be connected.
- Color: White
- Size: 4.81" x 3.13" x 1.69"



**ELK-M1TWS**

### M1 Two Way Speaker/Microphone

Microphone and 20 Watt Speaker combination for use with the M1 Controls two way listen-in interfaces

- Requires 4 conductor cable.
- Up to 12 may be connected.
- Color: White
- Size: 4.25" x 4.25" x 2.13"







**ELK-M1TWM**

### M1 Two Way Microphone

Microphone only for use with the M1 Controls two way listen-in interfaces.

- Simple two wire connection
- High Sensitivity
- Up to 12 may be connected
- Operating Voltage: Powered from M1TWI or M1EZ8TWI
- Current Draw: 5mA each
- Circuit Board Dimensions: 1.5" x 1"



**ELK-M1TWI**



### M1 Gold Two Way Listen-In Interface

This can be used by Central Station to verify an alarm, or by a user from the M1Gold telephone remote control to check on elderly parents, children, etc.

- Adds up to three (3) zones of two way listen-in to M1G Control.
- Up to 12 microphones may be connected
- May be removed from included housing and mounted on optional glides in Elk structured wiring enclosures
- Module powered by M1 Gold
- Compatible with: ELK-M1TWM, ELK-M1TWS, ELK-M1TWSF
- Includes 8 conductor interface cable
- Housing: 6.5"W x 4.3"H x 2.0"D
- Board Size: 4.5"W x 3.0"H x 1.2"D



**ELK-M1EZ8TWI**



### M1EZ8 Two Way Listen-in Interface

This can be used by Central Station to verify alarm from the M1EZ8. Some jurisdictions now require verification before dispatch.

- Adds up to three (3) zones of two way listen-in to EZ8 Control
- Up to 12 microphones may be connected
- May be removed from included housing and mounted on optional glides in Elk structured wiring enclosures
- Module powered by M1 EZ8
- Compatible with: ELK-M1TWM, ELK-M1TWS, ELK-M1TWSF
- Includes 8 conductor interface cable
- Housing Size: 6.5"W x 4.3" H x 2" D
- Board size: 3.375" x 2.25" H x .8"D



**ELK-M1TWA**



### Audio Amplifier Module with Two Way Listen-In Capability

Provides 3 zones of amplified speaker outputs with adjustable volume, along with 3 zones of microphone inputs. The M1TWA can be used to add two way listen-in to M1 Controls or to just add amplified speakers at keypads and other locations in a building.

- 3 Amplified Speaker Zones
- Adjustable Speaker Volume Control by Zone
- Selectable Mute by Zone
- 3 Microphone Input Zones (up to 4 mics per zone)
- Selectable Mic Listen by Zone or Select ALL
- Interfaces to ELK-M1 or ELK-M1EZ8 Controls
- Compatible with: ELK-M1TWM, ELK-M1TWS, ELK-M1TWSF
- Output Impedance Range: ~4 to 32 Ohms per speaker output
- Amplifier Rating: 1/2Watt per Speaker Output
- Operating Voltage: 9 to 14 Volts D.C.
- Current Draw: 15mA nominal, 1000mA max
- Microphone Current Draw: 5mA each
- Housing Dimensions: 4.25" x 6.375" x 2.125"
- Circuit Board Dimensions: 2.25" x 3.95"



### M1 Zone Temperature Sensors

Brings temperature information to M1 Controls for processing. Monitor high or low temperatures with this add-on remote sensor. Applications: wine cellars, server rooms, commercial coolers/freezers, second homes, agricultural uses, etc.

- Connects to any on-board zone on the M1 controls.
- Temperature may be accessed from keypad, touchscreen, telephone remote control, PC, or rules.
- Interface may be placed up to 1000' from M1 Control
- Temperature Range: -50 to +140F
- Operating Voltage: 12 Volts DC
- Current Draw: 10mA
- Housing Dimensions: 2.375" x 1.25" x 1"

### ELK-M1ZTS

- Interface with Short Probe
- Suitable for Indoor/Outdoor use in a covered environment



### ELK-M1ZTSR

- Interface with Stainless Remote Probe
- Suitable for Indoor/Outdoor use
- Probe Length: 7'





**ELK-W035A**

### M1 Accessory Wiring Harness

This 5-pin cable is required for connecting GE Wireless Receivers (GE model NX548E) to the M1 Controls. It can also be used to connect ELK-106055 proximity reader or any manufacturer's 26 bit Wiegand reader to an M1KP keypad.

- Color Coded
- Pre-stripped wire ends
- Keyed connector
- 18 Gauge Wire
- Wire length: 18"



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**ELK-W039A**

### M1KP2 & M1KP3 Proximity Reader Wiring Harness

This two pin cable is used to connect a 26 bit Wiegand reader (such as the ELK-106055) to the ELK-M1KP2 or M1KP3 Keypad

- Color Coded
- Pre-stripped wire ends
- Keyed connector
- 22 Gauge Wire
- Wire Length: 12"



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**ELK-W040A**

### Serial Ribbon Cable

This serial ribbon cable is used to connect the M1 Controls main serial port to the M1XEP.

- Compact design means cable will not interfere with the enclosure door
- DB9F to DB9M
- Approx. 17" long



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**ELK-W018B**

### 4-Pin Ribbon Cable

Used for connecting expanders and arming stations to the M1 Control for testing purposes.

- Great for bench testing
- **Not recommended for permanent installation**
- Approx. 18" long
- 4 pin keyed connector



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**ELK-USB232**

### Serial Cable to convert USB to RS-232

This special cable is required for the ELK-RP software to connect with the M1 Controls when the computer does not provide a conventional RS-232 9 pin port.

- Male USB to Male DB-9
- Speed: USB 2.0
- Cable Length: 6'
- Includes CD with Device Drivers



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**ELK-UB12**

### Utility Box for Power Supplies, etc

Multi-purpose box works well for power supplies and other peripherals.

- Can be used to house "special projects"
- Hinged cover with camlock
- Color: White
- Size: 12" x 12" x 3.5"
- Included in some M1EZ8 Control kits



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## Automation Accessories



**ELK-930**



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### Doorbell & Telephone Ring Detector

Detects doorbell and/or telephone ring to trigger automation events.

- Snap apart board includes: (2) doorbell sensors and (1) phone sensor
- Double Sided Foam Mounting Tape Included
- Packaged in Reusable Poly Storage Box
- Lifetime Limited Warranty
- Max Doorbell Input: 24 Volts AC Nominal
- Doorbell Detection Current: 900mA minimum
- Max Output: 40mA @ 12 Volts DC
- Size 3.4" x 2.75" x .625"



**ELK-WSV**



### Water Shutoff Valve

The ELK-WSV is a Professional Grade, electrically operated, water shutoff valve for both residential and commercial use. Used in conjunction with an automation controller, leak detection devices, or a simple manual pushbutton, the WSV can easily and conveniently shut off the main water supply to the building. Safe for drinking water.

- Rapid Action - Opening or Closing
- Provides Remote Shut off of Main Water Supply
- Stainless Steel Ball Valve is Safe for Drinking Water
- Integrates to Security or Automation Controller (e.g. M1 Gold or M1EZ8)
- Can be Integrated with a Simple "Easy" Button
- Can be Integrated with a Wireless Receiver and Wireless Pushbutton
- Valve Direction/Water Flow Indication
- Simple 12VDC, Four (4) Conductor Hookup
- Overall Dimensions: 9" x 5.75" x 4"

#### Actuator:

- Operates from 12 Volts DC
- Min Req. Power Supply: 12VDC, 1 Amp
- Current Draw: ~500mA nominal, 1 Amp peak
- Actuating Speed: < 4 seconds
- Torque: 1.25 in. lbs.
- Connections: 18 gauge, 4 conductor cord

#### Valve:

- Full Port, 2-way Ball Valve
- Stainless Steel Grade 316
- 1" NPT threaded pipe connections



**ELK-9200**



### Heavy Duty Relay/Contactor

Designed for remotely controlling high current devices. The energizing coil of the 9200 is 110 VAC, however its relay contacts are capable of switching 220 VAC at up to 60 Amps of current. The relay coil is prewired with a three (3) prong plug-in cord. This plug is compatible with virtually any appliance style automation module (purchased separately) including: UPB, Insteon, ZWave, Zigbee, X10, etc. A simple remote command can be sent to activate the lower current automation module, which in turn then activates the higher current contacts of the 9200 relay. This permits the safe and easy On/Off switching of up to 60 Amps of electrical current.

- Pre-Wired Terminal Lugs for easy Installation
- 110 VAC Plug Cord for Energizing Relay Coil
- Heavy Duty "Lockable" Metal Enclosure
- 60 Amp Long Life Double Pole Relay Contacts
- Relay Suitable for a 110 VAC or 220 VAC Load
- Ideal for Water Heaters, Motors, Gates, Pumps, etc.
- Operating Coil Voltage: 110 VAC
- Coil Current Draw: < 35 mA
- Relay "Contactor" Current Capacity: 60 Amps AC maximum
- Metal Enclosure Size: 12" x 12" x 3.375"
- Color: White

\* Not suitable for wet locations.

## Structured Wiring



**ELK-SWB28**

### 28" Structured Wiring Box

Multi-purpose cabinet for structured wiring, controls, & peripherals

- Versatile mounting for structured wiring modules from multiple manufacturer's; such as, Leviton, OnQ, OpenHouse, and others
- Flush Mount, Heavy Duty, locking cover with camlock.
- 2" Electrical box knockout in bottom
- Color: Appliance White
- Knockout Sizes: 1/2", 3/4", and 1 1/4"
- Size: 14.25" W x 28" H x 4.5" D

#### ELK-SWFD28

- Replacement Door for ELK-SWB28
- Includes Camlock
- Door Size: 15.63" x 29.88" x .63"



**ELK-SWB14**

### 14" Structured Wiring Box

Multi-purpose surface mount cabinet for structured wiring, controls, & peripherals

- Versatile mounting for multiple manufacturer's structured wiring modules; such as, Leviton, OnQ, OpenHouse, and others
- Heavy Duty, Tab Hinged Door with Camlock
- 2" electrical box knockout in bottom
- Color: Appliance White
- Knockout Sizes: 1/2", 3/4", and 1 1/4"
- Size: 14.25" Square x 3.5"D







**ELK-SWFD14**

### Flush Mount Door for ELK-SWB14

Turn the SWB14 into a flush mount enclosure! Can be adjusted for varying wall finish thickness and this locking, removable, hinged door extends beyond the box edges approx. 5/8", easily concealing uneven cutouts of the wallboard edges.

- Ideal for hollow frame walls with studs on 16" centers
- Size: 15.5"W x 15.8" H x .5" D



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**ELK-SWG**

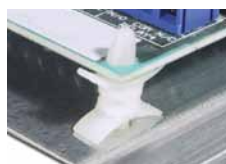
### Circuit Board Glides

For mounting ELK-M1 expansion boards or other manufacturer's boards into the Elk structured wiring enclosures

- Vertical Mounting
- Includes mounting screws
- Color: Gray
- Size: 2 7/8" D



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**ELK-SWNS1**

### Nylon Standoffs for Circuit Boards

For attaching ELK-M1 expansion boards or other manufacturer's boards onto the ELK-SWP or ELK-SWP3 plates

- Color: White
- 1/4" spacing, fits .156" hole
- Package of 10 standoffs



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**ELK-SWD1**

### Grommet Donuts

Pack of 2 grommet donuts for use in structured wire enclosures

- For use in 1.75" wire holes
- Protects wires from nicks and scrapes
- Outside Hole Diameter: 1.75"
- Inside Hole Diameter: 1.25"
- Color: Black



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**ELK-SWS**

### Battery Shelf

Mounts into the Elk structured wiring enclosures or onto the SWR rails

- Holds up to an 8Ah battery
- Bare aluminum finish
- Size: 6.25"W x 4.75" H x 3.25" D



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**ELK-SWP**

### 4.75" Multi-purpose Plate

Convenient, multi-purpose plate adapts peripherals, expansion boards, devices, etc. to fit Elk structured wiring enclosures

- Mounts into Elk structured wiring enclosures or on SWR rails
- Size: 6.25"W x 4.75" H x .5" D



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**ELK-SWP3**

### 3" Multi-purpose Adapter Plate

Convenient, multi-purpose plate adapts peripherals, expansion boards, devices, etc. to fit Elk structured wiring enclosures

- Mounts into Elk structured wiring enclosures or on SWR rails
- Size: 6.5"W x 3" H x .5" D



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**ELK-SWR**

### Mounting Rails

A package of 2 universal rails to mount adapter plates and modules; such as, Telephone, CATV, or Network modules. Accommodates modules from Leviton, OnQ, OpenHouse, and others.

- Can be mounted to plywood or other manufacturer's structured wiring boxes.
- Size: 1.125"W x 12.5" H x .375" D
- **Not required in Elk structured wiring enclosures.**



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**ELK-106058**



## ElkGuard® Self-Contained Wireless Security System with GSM Communicator

- **Construction Sites**
- **Homes without Land Lines**
- **Apartments/Dorms**
- **Marinas/Boats**
- **Mobile Structures**
- **Small Business**
- **Temporary Alarm System**
- **Unoccupied Real Estate**

On-board Motion Sensor: Senses motion up to 45 ft.  
 Remotes Included: 2) ELK-106068 4 Button Remotes  
 Accessories: Up to 23 wireless devices - sensors or keychain remotes  
 Communications: Built in GSM "cellular" communicator  
 Display: 6 character LED display  
 Voice Announcements: Reports alarms and events  
 On-board Siren: 124dB  
 Standby Battery: Rechargeable 12Volt 3.3Ah  
 External Output: For optional strobes or external siren  
 Dimensions: 20.5" H x 4.5"W x 3.3" D  
 Weight: 5.75 lbs. complete with battery

- Operates for up to 3 months without AC power
- Mobile all-in-one design
- Wireless GSM communication\*
- Easy setup in minutes
- Control your system remotely
- On-board blaring siren

### Also Available:

#### ELK-106057

#### NON-GSM ElkGuard® Unit

- For Local Alarm Only
- No reporting capabilities, cannot be upgraded



\* GSM Monitoring & Reporting service plans available through Alarm.com. Please visit [www.alarm.com](http://www.alarm.com) for details.



**ELK-106066**

## RKP Radio Keypad

- Transmits: Arm, Disarm, and Panic
- Valid LED and Low Battery LED
- On-board beeper for feedback
- Replaceable 9V Lithium Battery (5 year life expectancy)
- Dimensions: 5.31" H x 3.54"W x 1.06" D (with door closed)



**ELK-106068**

## 4 Button Remote (Keyfob)

- Transmits: Arm, Disarm, and Panic
- Rugged, Waterproof Housing
- Sealed 3V Lithium Battery (10 year life expectancy)
- Dimensions: 2.2" H x 1.25"W x .5" D



**ELK-106065**

## Universal Door & Window Switch

- Transmits: Alarm, Tamper, and Low Battery
- Built-in Reed Switch
- Ext. Switch Input includes processor for vibration sensor (not included)
- Replaceable 9V Lithium Battery (5 year life expectancy)
- Dimensions: 3" H x 1.8"W x 1" D



**ELK-106064**

## Mini Door & Window Switch

- Transmits: Alarm, Tamper, and Low Battery
- Built-in Reed Switch
- Replaceable 3V Lithium Battery (5 year life expectancy)
- Dimensions: 3.4" H x 1.3"W x .9" D



**ELK-106062**

## Motion Detector (PIR)

- Transmits: Alarm, Tamper, and Low Battery
- Max Coverage: 48' x 48' @ 90 degrees
- Selectable Pulse Count
- Pet Immune Available - (ELK-106051)
- Replaceable 9V Lithium Battery (5 year life expectancy)
- Dimensions: 5" H x 2.7"W x 2.2" D





**ELK-106063**

**Slimline Motion Detector (PIR)**

- Transmits: Alarm, Tamper, and Low Battery
- Max Coverage: 38' x 38' @ 90 degrees
- Selectable Pulse Count
- Replaceable 9V Lithium Battery (5 year life expectancy)
- Dimensions: 3.9" H x 3.1"W x 1.9" D



**ELK-106050**

**Emergency Pendant with Necklace/Bracelet**

- Transmits: Panic
- Sealed 3V Lithium Battery (10 year life expectancy)
- Dimensions: 2.25" H x 1.6"W x .75" D



**ELK-106054**

**Emergency Button**

- Transmits: Panic
- Replaceable 3V Lithium Battery (5 year life expectancy)
- Dimensions: 2.4" H x 1.4"W x .9" D



**ELK-106056**

**Doorbell Button**

- Transmits: Doorbell (Chime)
- Replaceable 3V Lithium Battery (5 year life expectancy)
- Dimensions: 2.4" H x 1.5"W x .7" D



## Surge Suppressors

Solid State Surge Suppressors for control systems or systems connected to phone lines. All units feature a super fast response time of less than 1 nanosecond.

- Solid State clamping Line-to-Line & Line-to-Ground
- Self restores after surges within ratings
- RJ31/38X 8-Pin Modular Jack
- Color: Black
- Size: 4.4" x 3" x 1.1"
- Lifetime Limited Warranty



**ELK-950**

**ELK-950**

**Single Telephone Line & Low Voltage Surge Suppressor**

- Protects 1 Incoming Phone Line and AC Input from Transformer
- Telephone Breakover: 300 Volts
- Max AC Input Voltage: 24 VAC
- AC Breakover: 50 Volts
- Peak Pulse Current: 100 Amps
- Convenient Test Points For Lineman's Test Set



**ELK-951**

**Single Telephone Line Only Surge Suppressor**

- Protects 1 Incoming Phone Line
- Telephone Breakover: 300 Volts
- Peak Pulse Current: 100 Amps
- Convenient Test Points for Lineman's Test Set



**ELK-955**

**Dual Telephone Line Only Surge Suppressor**

- Protects 2 Incoming Phone Lines
- Telephone Breakover: 300 Volts
- Peak Pulse Current: 100 Amps
- Convenient Test Points For Lineman's Test Set



**ELK-952**



**In-Line Telephone Surge Protector**

The ELK-952 provides exceptional protection against damage from lightning, voltage spikes, and surge damage coming into a phone line. It installs between the RJ31X Phone Jack and the Security Control. The ELK-952 features multi-stage protection and is 5 times faster than MOVs

- 5 Stage Surge Protection
- Very Economical
- Easy to Install
- Works with Any Security Control
- Response Time: < 1 Nanosecond
- Max. Signal Voltage: 250V (peak)
- Breakdown Voltage: 280V (nominal)
- Max 'Peak' Pulse Current: 100 Amps



# Siren, Voice, & Recordable Drivers



**ELK-100**



## High Performance Siren Driver

Great for residential or commercial alarm installations, the ELK-100 draws less current than many siren drivers. It offers 2 volume levels simultaneously, allowing exterior sound to be louder than interior.

- Two Volume Levels
- 3 sound options: Steady, Yelp, and Slow Sweep
- MilliMiser™ Lowers Current Draw
- ComboTrigger™ for Controls with Single Alarm Outputs
- Pre-Wired for easy installation
- Lifetime Limited Warranty
- Output: 120 db @ 1 meter, 13.8VDC OR 109 dB on MilliMiser™ setting
- Speaker Load: 8 Ohm Nom., 4 Ohm Min.
- Operating Voltage: 6 to 14 Volts DC
- Current Draw: 1.2 Amps @ 13.8VDC, (700 mA on MilliMiser™ setting)
- Size: 2.75" x 3.6" D



**ELK-110**



## Voice Siren Driver with Temporal Code

To eliminate confusion, this unit combines pre-recorded voice messages with attention grabbing siren sounds. MilliMiser™, ComboTrigger™, VolumeStep™, and bilingual voice messages allow you to meet any customer's needs.

- Bilingual Voice - English Or Spanish
- VolumeStep™ - Graduated Volume
- Temporal Coded Fire Signal
- MilliMiser™ - Lowers Current Draw
- ComboTrigger™ for Controls with Single Alarm Outputs
- Pre-Wired For Easy Installation
- Lifetime Limited Warranty
- Output: 120 db @ 1 meter, 13.8VDC OR 109 dB on MilliMiser™ setting
- Speaker Load: 8 Ohm Nom., 4 Ohm Min.
- Two Input Channels, Burglar & Fire
- Operating Voltage: 10 to 14 Volts DC
- Current draw: 1.25 Amps @ 13.8VDC, (800 mA on MilliMiser™ setting)
- Size: 2.75" x 4.0"



**ELK-120**



## Recordable Voice and Siren Driver with Temporal Code

This unique driver can be utilized as 4 voice recordable channels or 2 siren channels and 2 voice channels. Recording is easy using on-board microphone or .wav file download from a PC using ELK-129.

- Up to 4 messages, or 2 voice + 2 siren
- On-board microphone
- 24W Audio Amplifier with volume control
- One shot & repeat modes of playback
- Line level and speaker outputs
- Momentary/maintained "+" triggering
- Connector for PC sound card interface, Elk-129
- Lifetime Limited Warranty
- Sounds: Classic Yelp Siren, Temporal Coded Horn, and Steady Industrial Horn
- Maximum record time: 8 minutes
- Speaker Load: 8 Ohm Nom., 4 Ohm Min.
- Output: 120 db @ 1 meter, 13.8VDC
- Operating Voltage: 11 to 14 Volts DC
- Current Draw: 200 mA Nom., 2 A Max.
- Size: 3" x 5" x 1.25"



**ELK-124**



## Recordable Voice Annunciator

Applications are endless with this versatile unit. It allows up to 8 custom announcements which can be related to security, access control, museum narratives, amusement sounds/messages, on-hold messages for phone systems, equipment warnings, etc.

- Up to 8 messages
- On-board microphone
- 24W Audio Amplifier with volume control
- One shot & repeat modes of playback
- Line level and speaker outputs
- Momentary/maintained "+" or "-" triggering
- Connector for PC sound card interface, Elk-129
- Lifetime Limited Warranty
- Maximum record time: 8 minutes
- Speaker Load: 8 Ohm Nom., 4 Ohm Min.
- Output: 120 db @ 1 meter, 13.8VDC
- Operating Voltage: 11 to 14 Volts DC
- Current Draw: 200 mA Nom., 2 A Max.
- Enclosure Size: 4.375" x 6.5" x 2"



**ELK-129**



## PC Sound Card Interface

This interface allows you to download Audio .Wav files from your computer to ELK's recordable modules.

- Software requires MS Windows 95 or higher
- PC requirements: Stereo speaker output jack or Sound Card and speakers
- Input Power Required for programming ELK-120 or ELK-124: 12 VAC, 20VA Transformer (not included)
- Program ELK's recordable modules from PC
- Audio Jacks: Computer in and speaker out
- Includes: 6 Ft. audio cable, ribbon interface cable, and CDROM with software
- Lifetime Limited Warranty

# Echo™ Paintable Speakers/Sirens

The versatile Echo™ Series speakers and sirens are designed to be heard but not seen! Sound "echoes" off mounting surface from back plate edge. The unique contemporary design has a smooth, paintable, "no grill" surface that easily blends with any decor.

- May be painted or wallpapered to please the most discerning decorator
- Mounts to any flat surface or single gang electrical box
- Interior use only
- Color: White
- Mounting Hardware Included
- Lifetime Limited Warranty



## ELK-70

### Echo™ Speaker

- Interior Speaker
- Great for Voice and Sounds
- Impedance: 8 Ohms
- Rating: 20Watts Nominal
- Frequency Response: 500 to 7000 Hz
- Size: 4.375" H x 6.375"W x 1.875" D



## ELK-71

### Echo™ Siren

- Interior Alarm Siren with Yelp and Steady Tones
- Operating Voltage: 6 - 14 Volts DC
- Sound Level: 100 db @ 1 Meter, 13.8VDC
- Current Draw: 480mA @ 13.8VDC
- Size: 4.375" H x 6.375"W x 1.875" D



## ELK-73

### Compact Echo™ Speaker

- Small, Interior Speaker
- Great for Voice and Sounds
- Impedance: 8 Ohms
- Rating: 20 Watts Nominal
- Frequency Response: 500 to 7000 Hz
- Size: 4.56" H x 4.3"W x 1.875" D



## ELK-74

### Compact Echo™ Siren

- Small, Interior Alarm Siren with Yelp and Steady Tones
- Operating Voltage: 6 - 14 Volts DC
- Sound Level: 100 db @ 1 meter, 13.8VDC
- Current draw: 480mA @ 13.8VDC
- Size: 4.56" H x 4.3"W x 1.875" D



## Interior Speakers/Sirens



ELK-SP12F

### Flush Mount Speaker

Flush mount speaker features compact, low profile design. Wall plate size allows unit to be unnoticed at outlet height. 32 ohm impedance allows multiple speakers to be wired in parallel while maintaining an overall load rating that is acceptable for most control panels.

- Ideal for alarm or voice applications
- Fits single gang electrical boxes
- Lifetime Limited Warranty
- Impedance: 32 Ohms
- Rating: 12Watts
- Size: 4.81" x 3.13" x 1.44"



- Compact
- Easy To Mount
- Interior use only
- Color: White
- Hardware Included
- Lifetime Limited Warranty

## ELK-SP35

### 20 Watt Interior Speaker

- Multi-purpose Interior Speaker
- Great for voice or sounds
- Impedance: 8 Ohms
- Rating: 20 Watts Nominal
- Frequency Response: 250 to 8000 Hz
- Size: 4.25" H x 4.25"W x 2.13" D



## ELK-SS36

### Two Tone Interior Siren

- Self-Contained, Interior Alarm Siren
- Two Input Channels - Steady & Yelp
- Output: 105 db @ 1 meter, 13.8VDC
- Operating Voltage: 6 - 14 Volts DC
- Current draw: 470mA @ 13.8VDC
- Size: 4.25" H x 4.25"W x 2.13" D



## Stainless Steel Enclosed

Rugged quality, multi-purpose speakers and sirens with tamper resistant “no rust” enclosure are perfect for all type jobs. With their compact design and stainless steel construction, these speakers and sirens naturally reflect the mounting surface, blending easily into the surroundings. Great for harsh environments.



- Rust free, Guaranteed
- Compact, yet super loud
- Heavy duty magnet and mylar cone
- Matching strobe (ELK-SL1) in 4 colors
- Exterior or interior use

### ELK-1RT

#### Speaker & Stainless Steel Enclosure

- Clear Voice & Sound Reproduction
- High Fidelity voice coil
- Impedance: 8 Ohms
- Rating: 30Watts Nominal / 50Watts Peak
- Frequency Response: 500 to 7000 Hz
- Heavy duty magnet



Shown with SL1C Strobe

- Tamper resistant
- Size: 5"W x 5" H x 4" D
- 304 Stainless Steel with stainless hardware
- Lifetime Limited Warranty

### ELK-150RT

#### Siren & Stainless Steel Enclosure

- Works well with any control to produce separate sounds (ComboTrigger™) for fire and burglar from a single pulsing output
- Output: 118 db @ 1 meter, 13.8VDC
- Operating Voltage: 6 to 14 Volts DC
- Current Draw: 1.2 Amps @ 13.8VDC



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## Strobes



### Strobe for Stainless Speaker/Siren

A weather resistant, indoor/outdoor strobe light. Adds visual indication for alarms, warnings, hearing impaired applications, etc. Attaches easily to ELK's stainless steel units (ELK-1RT & ELK-150RT) or to wall using ELK-WK1. Features simple 12VDC two wire hookup, low current draw, and compatibility with most control panels.

- Interior or exterior use
- Can work with pulsing alarm outputs
- Fits ELK Stainless Speaker/Sirens
- May be wall mounted (see ELK-WK1)
- Easy to Install, simple 2 Wire Hookup
- Lifetime Limited Warranty

- Durable Polycarbonate Construction
- Colors: Clear, Red, Blue, or Amber
- Operating Voltage: 12 Volts DC
- Current draw: 210mA
- Flash Rate: Approx. 1 Flash per second
- Size: 4.875" x 3.875" x 1.125"

#### ELK-SL1A Amber Strobe



7 62158 91002 9

#### ELK-SL1B Blue Strobe



7 62158 91003 6

#### ELK-SL1C Clear Strobe



7 62158 91001 2

#### ELK-SL1R Red Strobe



7 62158 91004 3



ELK-WK1

### Wall mount kit for ELK-SL1 strobe light

Aesthetically pleasing cover allows mounting of ELK-SL1 directly to wall surfaces.

- Attractive cover
- Indoor/Outdoor
- Durable ABS Plastic
- Easy to Install
- Color: White
- Mounting Hardware Included
- Size: 5.125" x 2.625" x 1.375"
- Lifetime Limited Warranty



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# Multi-purpose Speakers/Sirens



- Rugged, Compact
- Easy To Mount
- Interior or Exterior use
- Color: Black
- Size: 4" H x 4"W x 3.5" D
- Lifetime Limited Warranty

## ELK-44 30 Watt Speaker

- Ideal for Alarm Systems or Paging
- Loud - Rivals Sound of Larger Speakers
- Heavy duty magnet and mylar cone
- High Fidelity Voice Coil
- Impedance: 8 Ohms
- Rating: 30 Watts Nominal / 50 Watts Peak
- Frequency Response: 500 to 7000 Hz



## ELK-45 Loud, Self Contained Siren

- ComboTrigger™ Produces two distinct tones from single pulsing alarm outputs
- Output: 118 db @ 1 meter, 13.8VDC
- Operating Voltage: 6 to 14 Volts DC
- Current Draw: 1.2 Amps @ 13.8VDC



ELK-M120

## Compact, Single Tone Siren

Self-contained, exterior alarm siren. Small size makes it ideal for tight spaces.

- Self-Contained, Yelping Siren Sound
- Low Current Draw
- Easy To Mount
- Interior or Exterior use
- Lifetime Limited Warranty
- Output: 107 db @ 1 meter, 13.8VDC
- Color: White
- Operating Voltage: 6 - 14 Volts DC
- Current draw: 388mA @ 13.8VDC
- Size: 3.25" x 4"



- Easy To Mount
- Interior or Exterior use
- Color: White
- Size: 5.25" x 6"
- Lifetime Limited Warranty

## ELK-SP15 15 Watt Speaker

- Multi-purpose, horn speaker
- Impedance: 8 Ohms
- Rating: 15 Watts Nominal
- Frequency Response: 500 to 7000 Hz



## ELK-SS15 Two Tone Siren

- Self-contained, exterior alarm siren
- Two Tones - Yelp & Steady
- Output: 110 db @ 1 meter, 13.8VDC
- Operating Voltage: 6 - 14 Volts DC
- Current Draw: 500mA @ 13.8VDC



- Easy To Mount
- Interior or Exterior use
- Color: White
- Size: 6" x 8" x 9.5"
- Lifetime Limited Warranty

## ELK-SP30 30 Watt Speaker

- Multi-purpose horn speaker
- Great for voice or sounds
- Ideal for Alarm Systems or Paging
- High Fidelity Voice Coil
- Impedance: 8 Ohms
- Rating: 30 Watts Nominal
- Frequency Response: 500 to 7000 Hz



## ELK-SS30 Two Tone Siren

- Self-contained, exterior alarm siren
- Two Tones, Yelp & Steady
- Output: 120 db @ 1 meter, 13.8VDC
- Operating Voltage: 6 - 14 Volts DC
- Current draw: 1.1A @ 13.8VDC



ELK-SP40

## 40 Watt Speaker

Heavy duty, horn speaker for use when maximum volume and clarity are a must. Great for voice or sounds!

- Ideal for Alarm Systems or Paging
- Tamper Loop
- Interior or exterior use
- High Fidelity Voice Coil
- Lifetime Limited Warranty
- Impedance: 8 Ohms
- Rating: 40 Watts Nominal
- Frequency Response: 250 to 8000 Hz
- Color: White
- Size: 11" x 6.5" x 8.5" deep















## RECHARGEABLE BATTERIES

### Premium Quality, Sealed Lead Acid Batteries with 2-Year Warranty

- Rechargeable
- All virgin materials for long life
- More lead for greater Ah capacity
- Size comparable to other manufacturers lower Ah sizes
- UL recognized component
- 2 year Warranty



<b>ELK-0613</b> 6 Volt, 1.3 Ah • 3.82" L x .94"W x 2.01" H • .187" F-1 Faston Tab  7 62158 00613 5	<b>ELK-0650</b> 6 Volt, 5 Ah • 2.76" L x 1.85"W x 3.94" H • .187" F-1 Faston Tab  7 62158 00640 1	<b>ELK-0675</b> 6 Volt, 7.5 Ah • 5.90" L x 1.34"W x 3.90" H • .187" F-1 Faston Tab  7 62158 00670 8	<b>ELK-06120</b> 6 Volt, 12 Ah • 5.9" L x 1.97"W x 3.9" H • .187" F-1 Faston Tab  7 62158 006120 2
<b>ELK-1208J2</b> 12 Volt, 0.8 Ah • 3.78" L x .98"W x 2.51" H • J2 Terminals  7 62158 11208 9	<b>ELK-1213</b> 12 Volt, 1.3 Ah • 3.82" L x 1.77"W x 2.24" H • .187" F-1 Faston Tab  7 62158 01212 9	<b>ELK-1233</b> 12V, 3.3 Ah • 5.27" L x 2.64"W x 2.6" H • .187" F-1 Faston Tab  7 62158 01233 4	<b>ELK-1250</b> 12 Volt, 5 Ah • 3.5" L x 2.75"W x 4.17" H • .187" F-1 Faston Tab  7 62158 01240 2
<b>ELK-1280</b> 12 Volt, 8 Ah • 5.94" L x 2.56" W x 3.98" H • .187" F-1 Faston Tab  7 62158 01270 9	<b>ELK-12120</b> 12 Volt, 12 Ah • 5.94" L x 3.9"W x 3.94" H • .187" F-1 Faston Tab  7 62158 12100 5	<b>ELK-12180</b> 12 Volt, 18 Ah • 7.12" L x 3"W x 6.57" H • B1-M5 bolt & nut  7 62158 12170 8	<b>ELK-12260</b> 12 Volt, 26 Ah • 6.53" L x 6.89"W x 4.96" H • B1-M5 bolt & nut  7 62158 12250 7



### Battery LifeTester™

A compact, easy to use service tool for testing 12 Volt rechargeable batteries. The BLT measures internal conductivity (Mhos), which is the best indicator of a battery's health and life expectancy. The BLT operates as follows: For each battery brand and size installed, start by measuring and recording a baseline Mhos reading. Then, during any service call or inspection simply measure and record the current (most recent) Mhos reading. Always compare the current Mhos reading with the original reading. When the current Mhos reading has reached at or around 71% of the original baseline then it is time to consider replacing the battery.

- Compact, low cost, and easy to use
- 3 digit display
- Does not discharge or damage the battery
- Includes self-adhesive test data labels for recording battery readings
- Includes hard shell, protective carrying case
- Powered by the battery under test and automatically warns when the battery voltage is too low for testing.

- Size 4.4" W x 3" H x 1.15" D
- Coated clips to connect to battery
- Lifetime Limited Warranty

**Self-adhesive Test Data Labels, 100 Pack**  
**ELK-BLTLABELS**



**ELK-P624**



### 6, 12, or 24VDC Power Supply Board

Trouble-free, general-purpose power supply/charger ideal for alarm, access control, and CCTV applications. Features auto-resetting "fuseless" overload protection which eliminates costly service calls to replace blown fuses.

- Auto-Resetting "fuseless" overload protection
- Selectable 6, 12, or 24VDC Output
- Visual AC & DC Power Indicators
- Built-in Surge Suppression
- Battery Charging Circuit
- Size: 3"W x 3" H x 1" D
- Lifetime Limited Warranty

- Output Current:
  - 1.2 Amps @ 6V
  - 1 Amp @ 12V
  - .8 Amps @ 24V
- Input Transformer Requirements:
  - 6V operation: 12 VAC Transformer
  - 12V operation: 16.5 VAC (TRG1640)
  - 24V operation: 24 VAC (TRG2440)

## CANNED POWER SUPPLIES

Multi-purpose power supplies with metal enclosure for security, CCTV, access control, cellular backup, etc.

- Auto Resetting (PTC) Overload Protection
- Visual AC & DC Power Indicators
- AC & DC Surge Suppression
- Built-In Battery Charging Circuit
- Color: White
- Size: 12"W x 12" H x 3.5" D
- Lifetime Limited Warranty



ELK-P112K

### ELK-P112

12VDC Power Supply & Battery Charger in Can

- Regulated Output Voltage: 13.8 Volts DC
- Continuous Current Rating: 1 Amp\*
- Includes ELK-TRG1640 Transformer
- Battery Recharging Capacity: 1.2Ah to 10 Ah



### ELK-P124

24VDC Power Supply & Battery Charger in can

- Regulated Output Voltage: 24 Volts D.C.
- Continuous Current Rating: 800 Milliamps
- Includes ELK-TRG2440 Transformer
- Battery Recharging Capacity: 1.2Ah to 10 Ah



### ELK-P112K

12VDC Power Supply & Battery Charger in can with battery

- ELK-P112 KIT (with 12V, 5Ah battery)



### ELK-P124K

24VDC Power Supply & Battery Charger in can with batteries

- ELK-P124 KIT (with two 12V, 5Ah batteries)



### ELK-P412

4 Amp, 12VDC Power Supply & Battery Charger in Can

- Regulated Output Voltage: 13.8 Volts D.C.
- Continuous Current Rating: 4 Amps
- Three (3) PTC Protected Power Outputs
- Master Power On/Off Switch
- Visual Power Indicators
- Switching Power Supply, no transformer needed
- Built-In Battery Charging Circuit

- AC Input Voltage Range: 120 VAC @ 47-63Hz
- Built-in Low Battery Cutoff:  $\approx$  10 Volts
- Battery Recharging Capacity: 1.2Ah to 10 Ah



ELK-P983



### Cell Power Pack for Uplink 2500 Cellular Transceiver

The ELK-P983 is ideal for mounting and powering the Uplink 2500 Cellular Alarm Transceiver. It consists of a 12" x 12" metal enclosure and a 12 Volt DC power supply/battery charger. It is capable of supplying 1 Amp of continuous current and 2.5 Amps peak for brief high current demands of the radio during transmission. The design of the enclosure allows quick and easy field mounting of the transceiver and antenna.

- Special knockout for antenna
- Heavy Duty Metal Enclosure with camlock
- Ample room in enclosure for up to two (2) 7 or 8Ah Rechargeable Batteries (not supplied)
- Enclosure Color: White

- Supplies 12 Volts D.C. Power for Transceiver
- Current: 2.5A Peak, 1A Continuous
- Requires a 16.5 VAC, 45 VA Transformer (not supplied)
- Enclosure Dimensions: 12" x 12" x 3.5"



ELK-P1216



### Plug-in Switching DC Power Supply

All purpose 12 Volt DC Plug-In Switching Power Supply ideal for alarm, access control, and CCTV applications. It plugs into a 120 Volt AC outlet and supplies 1.5 Amps of regulated 12VDC.

- Computer Grade Switching Power Supply
- Regulated 12VDC Output
- Six foot cord
- 2.1mm x 5.5mm x 9mm Power Plug (center positive)
- UL Listed
- Lifetime Limited Warranty

- DC Output Voltage: 12 Volts DC
- Current Rating: 1.5 Amps
- AC Input Voltage: 100 -120 @ 47~63Hz
- Color: Black
- Size: 3"H x 2"W x 1.75"D



## AUTO-RESETTING TRANSFORMERS

Auto-resetting, lifetime warranted transformers with grounding prong and grounding screw terminal. Step down transformer for low voltage systems, such as Access Control, Security, & CCTV.

- Wire Strain Relief
- Auto-Resetting (PTC) Fused Secondary
- Green Power On LED
- Grounding Prong & Terminal
- Electrical outlet mounting tab
- UL Listed
- Color: White
- Size: 4.14" H x 2.74"W x 2.2" D
- Lifetime Limited Warranty



### ELK-TRG1640

16.5 VAC, 45 VA Auto Resetting Transformer

- Input Voltage: 120 VAC, 60Hz, .43W
- Output Voltage: 16.5 Volts AC
- Output Power: 45 VA



### ELK-TRG2440

24VAC, 40 VA Auto Resetting Transformer

- Input Voltage: 120 VAC, 60Hz, .43W
- Output Voltage: 24 Volts AC
- Output Power: 40 VA



## POWER DISTRIBUTION UNITS

These convenient modules distribute power from a single AC or DC source to up to 9 outputs for centrally powering cameras, PIR's, photobeams, etc.

- Terminal blocks & 2.1mm DC power jack for power connection
- Auto-resetting PTCs help prevent a shorted output from disabling the other outputs
- Master Power On/Off Switch
- Visual LED Power Indicators on each Output
- Convenient Test Points for measuring Total Current Draw
- Outputs may be paralleled to increase max current draw from each output
- Requires a 6 to 30 volt AC or DC power source (not included)
- Color: White
- Size: 6.5" x 4.3" x 2"
- Lifetime Limited Warranty



### ELK-PD9

- Max current draw: 250mA from each output
- Max combined current draw: Not to exceed input Power Source or 2.3A



### ELK-PD9HC

- Max current draw: 400mA from each output
- Max Combined Current Draw: Not to exceed input power source or 3.6A



### ELK-PD9AC24

AC Camera Kit

- Conveniently powers up to (9) 24VAC cameras
- Max combined current draw: 1.7A
- Input/Output Voltage: 24 Volts AC
- Kit includes:
  - (1) Power Distribution Module (ELK-PD9)
  - (1) 24 Volt AC Transformer (ELK-TRG2440)



### ELK-PD9DC12

DC Camera Kit

- Conveniently powers up to (9) 12VDC cameras
- Maximum combined current draw: 1.5A
- Input/Output Voltage: 12 Volts DC
- Kit includes:
  - (1) Power Distribution Module (ELK-PD9)
  - (1) 12VDC Plug-in Power Supply (ELK-P1216)



### ELK-965



## Low Battery Cutoff & Master Power Switch

Total power control for any 12V control panel or power supply. Disconnects battery if voltage falls below 10VDC as a result of extended AC power outage. Convenient On/Off switch for manual disconnect.

- Automatic Low Battery Cutoff Protects Battery From Deep Discharge
- Installer Friendly - Small Compact Size
- Includes AC Wires & Battery Leads
- Lifetime Limited Warranty
- Works with most 12 Volt DC Control Panels or power supplies
- AC Power Leads: 18 AWG, 18" Length
- Maximum Transformer Size: 18 VAC
- Battery Leads: 18 AWG, 18" Length
- Low Battery Cutoff Voltage: ~10VDC



**SAVE with 20  
Piece Bulk Packs**  
**ELK-965-B20**



**Master Power Switch  
Only, 20 Piece Bulk Pack**  
**ELK-964-B20**



# Relays & Timers



**ELK-912**



## Compact Relay, 12 Volt

Quality, heavy duty relay module with SPDT (Form "C") Dry Contacts. It is ideal for general purpose switching of devices or high current loads.

- Positive Or Negative Activation
- Low Current Draw
- Elevator Style Screw Terminals
- Size: 1.1" X 1.55 " each
- Includes Double Sided Foam Mounting Tape
- Packaged in Reusable Poly Storage Box
- Lifetime Limited Warranty

- Relay Contacts: 7A @ 28VDC, or 10A @ 125 VAC
- Operating Voltage: 12 Volts DC
- Current draw: 30mA (relay on)



**SAVE with "Snap  
Apart" 12 packs  
ELK-912-12**



**ELK-912B**



## Relay, 12/24 Volt

Quality, heavy duty relay module with SPDT Form "C" contacts. It is ideal for general purpose switching of devices or high current loads.

- High Quality Large Cross Head Screw Terminals
- Positive Or Negative Activation
- Low Current Draw
- Voltage Input and Status LED
- Size: 2" X 1.5 " each
- Includes Double Sided Foam Mounting Tape
- Packaged in Reusable Poly Storage Box
- Lifetime Limited Warranty

- Relay Contacts: 7A @ 28VDC, or 10A @ 125 VAC
- Operating Voltage: 12 or 24 Volts DC
- Current draw: 35mA, triggered (relay on)



**SAVE with "Snap  
Apart" 6 packs  
ELK-912B-6**



**ELK-924**



## Sensitive Relay, 12/24 Volt

Sensitive trigger, heavy duty relay module with DPDT (Form "C") dry contacts.

- Trigger Current: 1.2mA @ 5-24VDC
- Positive (+) Or Negative (-) Trigger Input
- 12 or 24 VDC Selectable Operation
- Voltage Input LED
- Mounts in Standard 2.75" Snap Track
- Elevator Style Screw Terminals
- Size: 1.5" X 2.75" each
- Incl. Double Sided Foam Mounting Tape
- Packaged in Reusable Poly Storage Box
- Limited Lifetime Warranty

- Relay Contacts: 7A @ 28VDC, or 10A @ 125 VAC
- Trigger Voltage: 5 - 24VDC, Pos or Neg
- Operating Voltage: 12 or 24 Volts DC
- Current draw: 60mA (both relays on)



**SAVE with "Snap  
Apart" 4 packs  
ELK-924-4**



**ELK-941**



## Alarm Output Director

Allows single output control to activate 2 separate relays to provide steady voltage to 2 devices.

Intelligently determines whether the source is pulsing or steady. Can be triggered by a positive or negative source. Possible uses include triggering long-range radio or cellular dialers, fire bells, strobes and siren drivers.

- Ideal For Two (2) Channel Long Range Radio, Cellular Transmitters, or strobes
- Meets ANSI S3.41 Audible Emergency Evacuation Signals 3-Pulse Pattern
- Elevator Style Screw Terminals
- Limited Lifetime Warranty

- Relay Contacts: 7A @ 28VDC, or 10A @ 125 VAC
- Pulsing Input: .1 - 4sec. (.125-6hz)
- Trigger Voltage: 9 - 14VDC, Pos or Neg
- Trigger Current: 15mA
- Operating Voltage: 12 Volts DC
- Current draw: 96mA (both relays on)
- Size: 4.4" x 3"x 1.15"



**ELK-960**



## Delay Timer

Economical and flexible time delay relay for all purpose use. It features positive or negative trigger logic with triggers as low as 4.5 V, making it compatible with 5 V logic outputs.

- Adjustable Time Delay
- Operating Modes: One-Shot or Repeat
- Low Current Input Trigger (<1mA)
- Configurable to be normally on or normally off
- Size: 3" x 2.2" x 1" (Fits Standard Snap Track)
- Lifetime Limited Warranty

- Relay Contacts: 7A @ 28VDC, or 10A @ 125 VAC
- Time Settings: 1-60 Seconds or 1-60 Minutes
- Trigger Voltage: 4.5 - 24VDC, Pos or Neg
- Operating Voltage: 12 to 24 Volts DC
- Current Draw: 40 mA DC with relay on

## Programmable Controls



**ELK-MM220**



### Magic Module™ Two Input Programmable Controller

Low cost, programmable controller can be a dual time delay relay, process controller, single zone security control, etc. Programmed using the ELK-MB485 and ELK-MM443.

- 4096 program bytes using SIMPLE programming language
- Shipped pre-programmed as a single zone alarm control
- Non-volatile EEPROM memory
- Surface Mount Black Enclosure
- Lifetime Limited Warranty
- 2 Digital Inputs
- 2 Relay Outputs
- 4 counters: 0 to 255 increments
- 4 timers: 1/10 second to over 255 hours
- Operating Voltage: 12Volts DC
- Current Draw: 10mA Nom., 70mA Max.
- Size: 4.5"W x 4.375" H x 2" D



**ELK-MM443**



### Magic Module™ Four Input Programmable Controller

Powerful, networkable, programmable controller can be an automation controller, quad time delay relay, door access control, security control, etc. Control lighting, security, access, or almost any electrical device via powerline carrier (X10) or the 4 relays.

- Connection for powerline carrier (X10) interface
- 16,384 program bytes using SIMPLE programming language
- Network with other Magic Modules and accessories or PC over RS-485 Bus.
- Non-volatile EEPROM memory
- Surface Mount White Enclosure
- Lifetime Limited Warranty
- 4 Inputs: Digital or Analog sensing
- 4 Relay Outputs
- 4 counters: 0 to 255 increments
- 4 timers: 1/10 second to over 255 hours
- RS-485 Data bus length: 4000 feet max.
- Operating Voltage: 9.5-15 Volts DC
- Current Draw: 10 mA. Nom., 130mA Max.
- Size: 6.5"W x 4.375"H x 2"D



**ELK-MB485**



### RS-232 to RS-485 Data Converter

The ELK-MB485 is used to communicate between a personal computer and the ELK Magic Module (ELK-MM443). The ELK-MB485 converts the computer's RS-232 Serial Data to RS-485 Data which is used by the ELK Magic Module™ series of products. This allows programs to be downloaded into the Magic Modules. Input and Output status can be displayed and controlled from the computer.

- Converts RS-232 to RS-485 Data
- Visual Power Indicator LED
- 9 Pin Serial D-Connector
- Terminals for 4-Wire Data Bus
- Surface Mount ABS Enclosure with Snap-On Cover
- Data Interconnect Cable (4 Pin) included
- Computer Serial Cable (9 Pin) included
- Enclosure Size: 4.5" x 3" x 1.2"
- Lifetime Limited Warranty

## Communication Accessories



**ELK-800**



### 10 Watt Audio Amplifier

This compact amplifier is ideal for telephone paging, PA, custom voice or alarm annunciation.

- No need for 25V or 70V Line Transformers
- Can drive multiple 8 Ohm speakers
- Requires only 22-24 gauge telco wire
- Built-in Volume Control
- Short circuit protection
- Output: 10 Watts
- Input Impedance: 1000 Ohms Nominal
- Speaker Load: 8 Ohm Nom., 2 Ohm Min.
- Color: Black
- Operating Voltage: 12 to 24 Volts AC or DC
- Current draw: 50 mA Nom., 800 mA Max.
- Size: 4.5" x 3" x 1.2"
- Lifetime Limited Warranty





**ELK-RJSET**

### RJ31X Telco Jack & Cord

For use with Alarm System Communicators, Line Fault devices, or other equipment as a means of connecting to the incoming telephone line.

- USOC RJ31X 8 pin modular jack
- Built-in pass through shorting bars
- Gold plated connector pins
- Includes self adhesive foam mounting pad
- 2 foot, 8 conductor cord with modular plug on one end and spade terminals on the other
- FCC approved - UL listed as a Communication Circuit Accessory
- Lifetime Limited Warranty



## Universal Accessories

### "B" Connectors

For solid, dependable splicing of 18 to 30 gauge wires.

- Easy to Squeeze Soft Brass Crimp
- Built-in Test Point
- Insulation Piercing Internal Teeth
- Durable Protective Outer Covering
- 2 Handy Zip Lock Bags of 250 pcs each
- 500 pcs per box
- Packaged in Reusable Poly Storage Box
- UL listed



**ELK-900-2**



#### Yellow Unfilled "B" Connectors

- Yellow color indicates unfilled



**ELK-902-2**



#### White Gel Filled "B" Connectors

- Non-hardening Gel Moisture Barrier forms corrosion resistant splice
- White color indicates gel filled
- No Markings on Jacket



**Alarm Decals**

### WARNING ALARM SYSTEM Decals for alarm installations

- Attractive Red, Blue and White
- UV-Resistant Vinyl Material
- Self Adhesive Peel And Stick Backing
- Fade-Resistant Ink
- Secondary Protective Clear Vinyl Laminate
- Size: 3.2" x 6.4" Triangle Shape
- ELK-998: Package of 100 Decals
- ELK-998-05: Retail Package of 5 Decals

**ELK-998**  
**100 Decals**



**ELK-998-05**  
**5 Decals**



**ELK-999**

### Double Sided Foam Mounting Tape

- Permanent Rubber Adhesive
- 130 Individual Pieces
- Packaged in Reusable Poly Storage Box
- Individual Piece Size: 1/2" x 1- 1/2" x 1/4" Thick



**ELK-PB1**

### Project Box

General purpose, paintable box for housing wire splices, relay modules, etc.

- Mounts to a single gang electrical box
- Mounting hardware included
- Removable wire entry tabs work with panduit surface raceway conduit
- Color: White
- Size: 6.5"W x 4.3" H x 2" D



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# ***ELK***

## **Manufactures**

**Controls • Sirens • Speakers • Batteries  
Power Supplies • Relays • Surge Suppressors  
Timers • Accessories • Test Tools**

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